

Question 2. Draw the structures of the following compounds:

a) 2,2,4-trimethylhexane d) 3-ethyl-2,4,5-trimethyloctane

b) 1,1,2-trichlorobutane e) 5-butyl-2,2-dimethylnonane

c) 2,2-dimethylpropane f) 1,1,1-trichloroethane

Question 3. Explain why the following molecules have an incorrect name. What is the correct name?

a) 1,3-dimethylbutane b) 4-methylpentane

c) 2,2-diethylbutane d) 2-ethyl-3-methylpentane

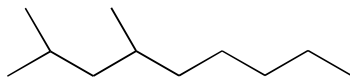
Worksheet 2

Hydrocarbons

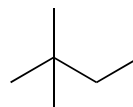
Question 1.

Give the systematic name for the following compounds.

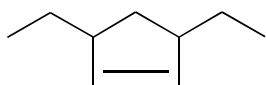
a.



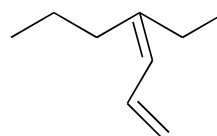
b.



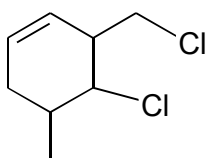
c.



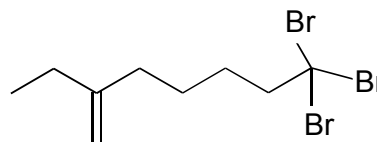
d.



e.



f.



Question 2.

Draw structures corresponding to the following names. Which name is incorrect and what is its correct name.

a. 2-methyl-3-ethylhexane

b. trans-1-chloro-1-pentene

c. 3,3-dipropyl-1-butyne

d. hexachloro-1,3-butadiene

e. 1-iodo-3-methylcycloheptene

f. 1,2-dicyclopentylethene

g. 2,3-dibromo-4-(methylethyl)nonane

h. 3-(2-bromoethyl)-1-hexene